

# Horizontal Box Furnace

(+1200°C and +1400°C)

Serving the Scientific, Medical and Research industries since 1945

**LABEC**

## LABEC Horizontal Box Furnaces

are manufactured with high quality materials for easy maintenance and excellent durability.

The double skinned fan cooled construction keeps the exterior body cool at high temperatures and provides excellent stability. The furnace features multiple layers of ceramic fibre insulation for excellent thermal stability and rapid thermal cycling, and heating is by electric elements

The door is held firmly closed with side locking latches and has a safety cut off when the door is opened during operation.

## Controller

These furnaces feature a multi-stage programmable controller for up to 51 segments and a 0-99 hour timer. The display is full colour LCD.



## Data Logging

When optioned, the controller can be connected via RS232/RS485 communication ports which can be connected directly to a data logger or computer to collect the information. Software is available for programming and monitoring.

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# SPECIFICATIONS

## Horizontal Box Furnace (1200°C)

Model	BF 01/12	BF 02/12	BF 03/12	BF 08/12	BF 12/12	BF 27/12	BF 36/12
Int. Dim. (mm)	w100 d100 h100	w120 d130 h120	w150 d150 h150	w200 d200 h200	w200 d300 h200	w300 d300 h300	w300 d400 h300
Capacity (L)	1	1.5	3	8	12	27	36
Temp. Max	1200°C (<3hours) or 1100°C continuous						
Temp. Setting Accuracy	±1°C						
Temp. Fluctuation	±5°C over 120mm @ 1200°C ±3°C over 80mm @ 1100°C						
Temp. Sensor	K type (Pt-Rh) with 99.7% purity Alumina tube						
Heating Rate	0-20°C / minute						
Heating System	Electric Element						
Interior Material	Ceramic Lined - Two Layers						
Exterior Material	Stainless Steel						
Controller	51 segment PID programmable controller						
Options	Cable entry port, high temperature models, RS232 connection, touch screen model						
Safety Features	Over Temperature Alarm, temperature protection cut off, door open cut off, earth leakage breaker						
Power Requirement	Single Phase 240V						
	15 Amp	20 Amp or 32 Amp			32 Amp	50 Amp	

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# SPECIFICATIONS

## Horizontal Box Furnace (1400°C)

Model	BF 01/14	BF 02/14	BF 03/14	BF 08/14	BF 12/14	BF 27/14	BF 36/14
Int. Dim. (mm)	w100 d100 h100	w120 d130 h120	w150 d150 h150	w200 d200 h200	w200 d300 h200	w300 d300 h300	w300 d400 h300
Capacity (L)	1	1.5	3	8	12	27	36
Temp. Max	1400°C (<3hours) or 1300°C continuous						
Temp. Setting Accuracy	±1°C						
Temp. Fluctuation	±5°C over 120mm @ 1400°C ±3°C over 80mm @ 1300°C						
Temp. Sensor	K type (Pt-Rh) with 99.7% purity Alumina tube						
Heating Rate	S type (Pt-Rh to Pt-Rh) with 99.7% purity Alumina tube						
Heating System	SIC Electric Element						
Interior Material	Ceramic Lined - Three Layers						
Exterior Material	Stainless Steel						
Controller	51 segment PID programmable controller						
Options	Cable entry port, high temperature models, RS232 connection, touch screen model						
Safety Features	Over Temperature Alarm, temperature protection cut off, door open cut off, earth leakage breaker						
Power Requirement	Single Phase 240V						
	15 Amp	20 Amp or 32 Amp		32 Amp		50 Amp	

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